

**SOFTWARE APPLICATION AND ASSOCIATED METHODS FOR  
GENERATING A SOFTWARE LAYER FOR STRUCTURING  
SEMISTRUCTURED INFORMATION**

**Abstract of the Disclosure**

5           A wrapper builder application provides a variety of features for facilitating the creation of wrappers that are used to extract information from Web sites. In one aspect, the wrapper builder application provides a tool with which the process of creating a wrapper, which typically resembles coding, can be accomplished by a graphical design process involving drag and drop operations, clicking on objects, and filling in forms. A

10   web viewer component provides a web browser frame, a source code frame, and a tree view frame, enabling the user to identify semistructured information of interest on Web sites. A wrapper editor component provides a graphical design environment in which a wrapper can be graphically constructed from operations and links. A wrapper model component provides a functioning internal representation of the graphically designed

15   wrapper using Java objects and methods. A property editor component provides for the setting of properties that define the particular functionality of individual wrapper operations. A wrapper execution component provides features that enable the wrapper to be executed and debugged using a number of debugging tools. A wrapper serialization component provides a mechanism for storing and retrieving a wrapper for

20   subsequent use and/or modification.

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